

CLAIMS

What is claimed is:

1. A substrate verification system for converter substrates comprising:
a wrap mechanism with a wrap surface;
a mat wrap on said wrap surface of said wrap mechanism;
at least one substrate on said wrap mechanism on top of said mat wrap;
a reader mounted adjacent said wrap surface for reading an identifier on said substrate; and
a controller for comparing the identifier on said substrate to stored data.
2. The verification system in claim 1 wherein there is a reader for each substrate.
3. The verification system in claim 1 wherein said identifier is a barcode and said reader is a barcode scanner.
4. The verification system in claim 1 wherein the wrap mechanism includes a wrap roller to apply said mat wrap to said at least one substrate.
5. The verification system as recited in claim 1, wherein a computer is connected to said controller, said computer for input and storage of said stored data.
6. The system as recited in claim 5, wherein a printer is attached to said verification system to create a converter label using information from said computer.
7. The system as recited in claim 6, wherein said information includes data from said identifier, data stored on said computer, and data generated by said computer.

8. A method of verifying a substrate comprising the steps of:
 - a) placing a mat wrap on a wrap mechanism
 - b) placing a substrate with an identifier on the mat wrap;
 - c) reading data associated with the identifier on the substrate; and
 - d) comparing data from the identifier with stored data.
9. The method as recited in claim 8, wherein said step d) further includes comparing an orientation of said substrate against said stored data.
10. The method as recited in claim 8, wherein said step d) further includes comparing a substrate part number against said stored data.
11. The method as recited in claim 8, further including the step of:
 - e) activating a system alert when the identifier data does not match the stored data.
12. The method as recited in claim 11, further including the step of:
 - f) stopping the wrap mechanism and waiting for an operator to check the alert.
13. The method as recited in claim 12, further including the step of:
 - g) the operator restarting the verification system after checking the alert.
14. The method as recited in claim 8, further including the step of:
 - h) applying the mat wrap to the substrate if the verification system confirms the substrate is correct.

15. The method as recited in claim 14, further including the steps of;
- i) placing the substrate in a converter housing
 - j) printing a converter label
 - k) applying the converter label to the converter housing

16. A method of verifying a substrate comprising the steps of:
 - a) placing a mat wrap on a wrap mechanism
 - b) placing a substrate on the mat wrap; and
 - c) reading the substrate to verify orientation or position of the substrate.
17. The method as recited in claim 16, further including the step of:
 - d) activating a system alert when the substrate is in the incorrect orientation or position.
18. The method as recited in claim 17, further including the step of:
 - e) stopping the wrap mechanism and waiting for an operator to check the alert.
19. The method as recited in claim 18, further including the step of:
 - g) the operator restarting the verification system after checking the alert.
20. The method as recited in claim 16, further including the step of:
 - h) applying the mat wrap to the substrate if the verification system confirms the substrate is in the correct position and orientation.
21. The method as recited in claim 20, further including the steps of;
 - i) placing the substrate in a converter housing
 - j) printing a converter label
 - k) applying the converter label to the converter housing